Supporting Information

for

Optical Absorptivity versus Molecular Composition of Model Organic Aerosol Matter

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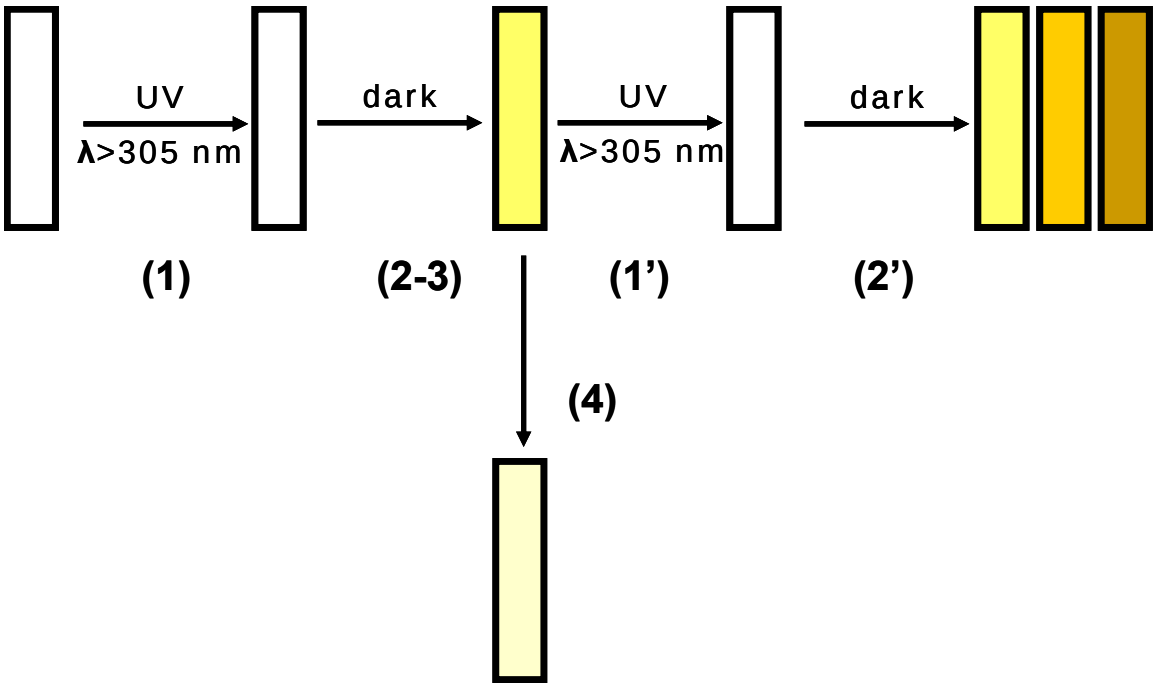

Scheme S1 Schematic representation of HULIS generation from PA photolyzed solution in post irradiation period. Numbers in breaks indicates the successive steps: (1) photolysis, (2) thermal treatment at 298K, (3) thermal treatment at 333K, and (4) 1:2 dilution of (3) in water. 1' and 2' represent second photolysis and thermal treatment.

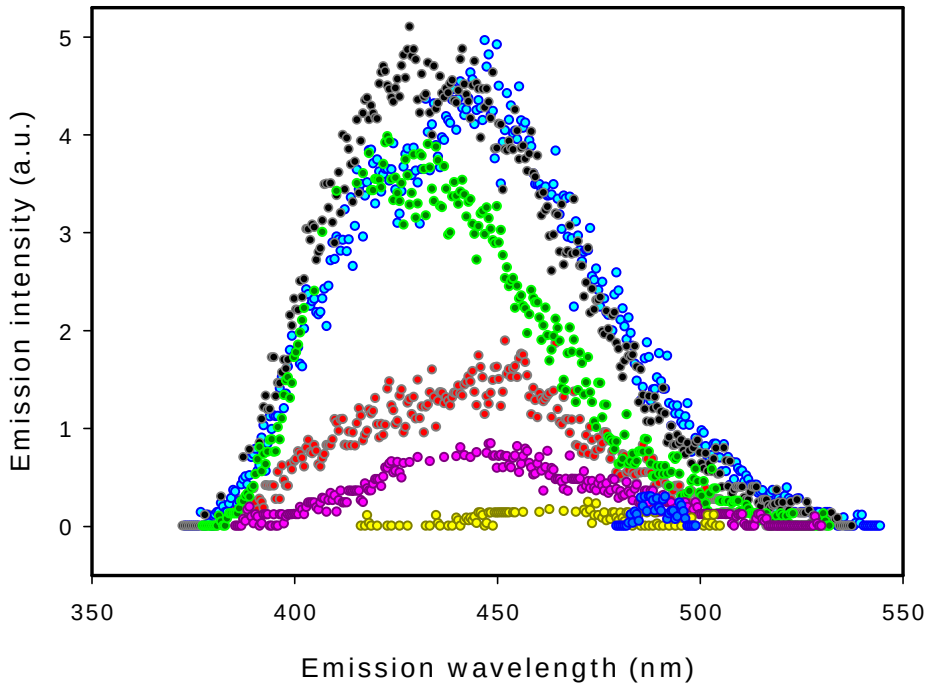

Figure S1 Fluorescence emission spectra of 80.2 mM PA solution non-irradiated. λ_{exc}: 300 nm (), 320 nm (), 340 nm (), 360 nm (), 380 nm (), 400 nm (), 420 nm (). λ_{exc} <300nm and λ_{exc} >420nm does not show emission.

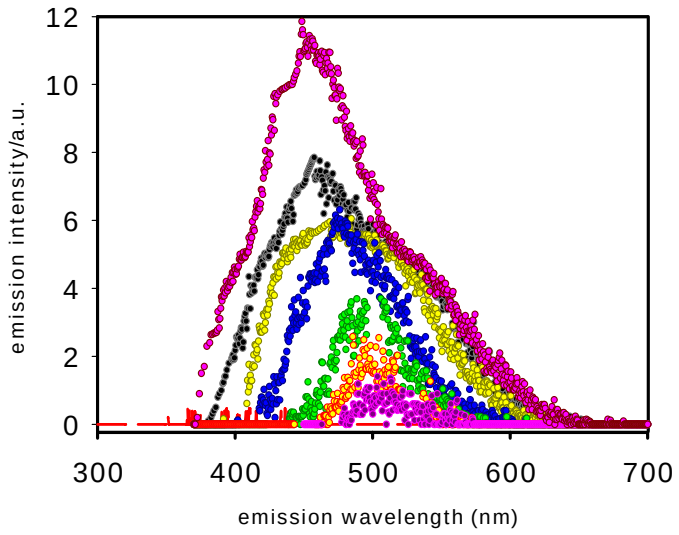

Figure S2. Fluorescence emission spectra of 80.2 mM PA solution photolyzed for 4.5 h followed by thermal treatment in the dark for 3 days at 333K. λ_{exc}: 380 nm (), 390 nm (), 400 nm (), 410 nm (), 430 nm (), 450 nm (), 470 nm ().